MMM	MMM	TTTTTTTTTTTTTT	ННН	HHH	RRRRRRRR	RRRR	TTTTTTTTTTTTTT	LLL
MMM	MMM	††††††††††††††††	ННН	ННН	RRRRRRRR		TTTTTTTTTTTTT	
MMM	MMM	ŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤŤ	ННН	ннн	RRRRRRR		i i i i i i i i i i i i i i i i i i i	
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MMM	MMM	TTT	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	ĬĬĬ
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MMM	MMM	ŤŤŤ	НИНИНИНИНИ		RRRRRRRR		ŤŤŤ	iii
MMM	MMM	ŤŤŤ	ННН	ннн	RRR RR		ŤŤŤ	ili
MMM	MMM	ŤŤŤ	нин	ннн	RRR RR		ήii	
MMM	MMM	ή††	HHH	HHH	RRR RR		111	LLL
MMM		 T T						LLL
	MMM		ннн	ННН	RRR	RRR	ŢŢŢ	rrr
MMM	MMM	III	HHH	ННН	RRR	RRR	ŢŢŢ	LLL
MMM	MMM	TTT	ННН	HHH	RRR	RRR	TTT	LLL
MMM	MMM	TTT	ННН	HHH	RRR	RRR	TTT	
MMM	MMM	TTT	HHH	HHH	RRR	RRR	TTT	LLLLLLLLLLLLLL
MMM	MMM	111	ННН	HHH	RRR	RRR	ŤŤ	

MT MT MT MT MT

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MM MM MMMM MMM MMMM MMMM MMM MM MM MM MM	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	HH HHHHHHHHH	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	NN	TTTTTTTTT TT TT TT TT TT TT TT
		\$			

MT1 2-1

16-SEP-1984 01:02:35 VAX/VMS Macro V04-00

Page 0

MTI 2-(

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16-SEP-1984 01:02:35 VAX/VMS Macro V04-00 6-SEP-1984 11:20:14 [MTHRTL.SRC]MTHAINT.MAR;1

Page (1)

2-(

.TITLE MTHSAINT - FLOATING TRUNCATION .IDENT /1-006/ : File: MTHAINT.MAR Edit: JAW1006

5 : *****************************

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;************************************

; FACILITY: MATH LIBRARY

This module contains routine MTH\$AINT: truncate a floating-point number.

: VERSION: 0

40 : HISTORY:

Jonathan M. Taylor, 30-Jul-77: Version 0

: MODIFIED BY:

(3)

\$PSLDEF

; PSL Macros

PSECT DECLARATIONS:
.PSECT _MTH\$CODE

PIC, SHR, LONG, EXE, NOWRT

EQUATED SYMBOLS:

NONE

OWN STORAGE:

0000

ŎŎŎŎ 0000000

NONE

```
H 6
MTHSAINT
                                     - FLOATING TRUNCATION
                                                                                    16-SEP-1984 01:02:35
6-SEP-1984 11:20:14
                                                                                                              VAX/VMS Macro VO4-00
[MTHRTL.SRC]MTHAINT.MAR;1
                                                                                                                                               Page
                                     MTH$AINT Real to Real truncation
                                                                                                                                                      (4)
                                                                 .SBTTL MTHSAINT
                                                                                             Real to Real truncation
                                           0000
                                                   100
                                           ŎŎŎŎ
                                                       :++
: FUNCTIONAL DESCRIPTION:
                                                   101
                                                   102
                                           0000
                                           0000
                                           0000
                                                   104
                                                                 Return the arguments with zeroes to the right of the decimal
                                           0000
                                                   105
                                                                 point.
                                                   106
                                           0000
                                           0000
                                                         CALLING SEQUENCE:
                                           0000
                                                   108
                                           0000
                                                   109
                                                                 Truncation.wf.v = MTH$AINT (arg.rf.r)
                                           0000
                                                   110
                                                          INPUT PARAMETERS:
                                                   111
                                                   112
                                           0000
                                           0000
                                                                 The one argument is a single-precision floating-point value
                                           0000
                                                   114
                                                                 and is call-by-reference.
                                           0000
                                                   116
117
                                           0000
                                                          IMPLICIT INPUTS:
                                           0000
                                           0000
                                                   118
                                                                 NONE
                                                   119
                                           0000
                                           0000
                                                  OUTPUT PARAMETERS:
                                           0000
                                           0000
                                                                 NONE
                                           0000
                                           0000
                                                          IMPLICIT OUTPUTS:
                                           0000
                                           0000
                                                                 NONE
                                           0000
                                          0000
                                                          COMPLETION CODES:
                                          0000
                                          0000
                                                                 NONE
                                          0000
                                          0000
                                                         SIDE EFFECTS:
                                          ŎŎŎŎ
                                                   134
                                          0000
                                                                 Reserved Operand and Floating Underflow exceptions can occur.
                                          0000
                                                  136
137
                                          0000
                                   0000
                                          0000
                                                                         MTHSAINT,
                                                                 .ENTRY
                                                                                             ^M<>
                                      50
54
                                                   138
139
                                          0002
                                                                          a4(AP), RO
RO, #0, #1, R1, R1
                       50
                                                                                                     ; R0 = arg
; R1 = fraction_part(R0);
; R0 = integer_part(R0)
                                                                                                        R0 = arg
         51
              51
                                          0006
                                50
                                                                 EMODF
                                                                                                        R1 = fraction_part(R0)
                          ŠŎ
                                51
                                      42
                                          0000
                                                   140
                                                                          R1, R0
                                                                 SUBF
                                      04
                                          000F
                                                   141
                                                                 RET
```

1-006

.END

0025 0025

1-006

Page 6 (5)

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes		
. ABS . SABSS _MTH\$CODE	00000000 (0.) 00000000 (0.) 00000025 (37.)	00 (0.)	NOPIC USR CO	ON ABS LCI ON ABS LCI ON REL LCI	NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:20.09	00:00:01.08
Command processing	134	00:00:00.45	00:00:02.16
Pass 1	113	00:00:01.00	00:00:04.01
Symbol table sort	0	00:00:00.03	00:00:00.03
Pass 2	46	00:00:00.46	00:00:02.13
Symbol table output	Ž	00:00:00.01	00:00:00.01
Psect synopsis output	Ž	00:00:00.02	00:00:00.02
Cross-reference output	Ō	00:00:00.00	00:00:00.00
Assembler run totals	33 0	00:00:02.06	00:00:09.44

The working set limit was 1050 pages.
4117 bytes (9 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 41 non-local and 0 local symbols.
193 source lines were read in Pass 1, producing 13 object records in Pass 2.
8 pages of virtual memory were used to define 7 macros.

! Macro library statistics !

4

Macro library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB:2

98 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:MTHAINT/OBJ=OBJ\$:MTHAINT MSRC\$:MTHAINT/UPDATE=(ENH\$:MTHAINT)

0257 AH-BT13A-SE

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